MELT Laser Rangefinder

THALES

VENDOR DESCRIPTION

MELT (Miniature Eyesafe Laser Rangefinder) is a lightweight miniature erbium laser rangefinder. MELT's reduced space claim and minimal weight make it ideal for robotic and unmanned platform applications. The system is currently under development for European customers and demonstration with full rate production is due towards the end of 2003. The MELT unit can be integrated to, or form part of, Surveillance systems, Target Location systems, Laser Designation systems and Fire Control systems where line-of-sight range to target is required. MELT is being offered as either a chassis-based (unboxed) module for inclusion within a larger system or as a discrete LRU (boxed) for bolt-on external applications. MELT is classified as being Class 1 eyesafe to ANSI Z136.1-2000 and TBMED-524.

Product Manager Robotic & Unmanned Sensors
Telephone: (732) 427-5827 / DSN 987
Fax: (732) 427-5072 / DSN 987
e-mail: SFAE-IEWS-NV-RUS@iews.monmouth.army.mil

PM RUS
Robotic & Unmanned Sensors

Business Category: Large Business

EOIR

Hardware	
Wavelength: 1.54 micro meters	Operating Temp.: -40°C to +71°C
Eyesafe to Class 1 ANSI 136.1.-2000	Storage Temp.: -55°C to 85°C
Extinction Ratio: 30 dB (Pin diode) or 37 dB (APD option)	Data Interface: RS-485
Range Resolution: 5m	False Alarm Rate: < 1%
Range Accuracy: 5m	Missing Pulses: < 1%
Range Gating Function: Variable between 45m and 9995m	Weight (Boxed): 1 kg or 2.2 lbs
Target Discrimination: Customer-selectable between 5m and 30m	Dimensions (Boxed): 65mm x 104mm x 160mm
Target Selection: First/Last	Weight (Unboxed): 0.4 kg or 0.9 lbs
Beam Divergence: < 0.5 mrads	Dimensions (Unboxed): 100mm x 75mm x 50mm
Beam Stability: < 0.1 mrads	MTBF: > 6000 hrs (calculated)
Processing Range: 50 to 19,995 m	Maintainability: 2-level BIT to LRM level